



Levin Richmond Terminal Sampling

Jeffrey Cotsifas to: Melissa Scianni

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CC: Brian Ross, Debra O'Leary, Elizabeth Christian, Brenda Goeden,
Rob Lawrence

1 attachment



LRT core notes.pdf

Melissa,

As you are aware, we are in the process of sampling and testing in support of the Levin Richmond Terminal "advanced maintenance" dredging project and we have completed our sampling in the proposed trench area along the face of the wharf. Please note that we observed sampling refusal at each of the LRTC Berth B sample locations above the project depth plus over-depth of -46 ft MLLW; Table 1 summarizes the core penetration depths. Observations of the material in the vibrocore cutter head suggest that we are penetrating into parent material that is natural to the Richmond Inner Harbor (i.e., old bay mud). We have collected a separate Z-layer at each of these locations that represents the bottom 0.5 ft above the reported refusal depth of each sediment core.

We would like to propose to move forward with the characterization of the sediments samples as:

1. the majority of samples were very close to the proposed permitted dredge depth of -45 ft MLLW,
2. we will be analyzing the Z-layer and the results of this analysis will likely be representative of material that was not obtained due to vibrocore refusal.

I look forward to hearing from you and will be in the office all day Monday if you would like to chat.

Regards,

Jeff

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Locations of sampling stations, core penetration depths for Levin Richmond Terminal.

SAMPLE ID	Latitude ^A (decimal degrees)	Longitude ^A (decimal degrees)	Mudline Elevation (ft MLLW)	Core Penetration Depth (ft)	Cored Depth (ft MLLW)	Notes
LRTC-DU1-01	37°55.1719'	-122°22.0154'	-41.1	3.0	-44.1	Hard refusal met. Parent material of dry blue/green clay in cutter head.
LRTC-DU1-02	37°55.1584'	-122°21.9950'	-41.4	4.0	-45.4	Hard refusal met. Parent material of dry blue/green clay in cutter head.
LRTC-DU1-03	37°55.1418'	-122°21.9699'	-40.8	2.0	-42.8	Hard refusal met. Parent material of dry blue/green clay in cutter head.
LRTC-DU1-04	37°55.1255'	-122°21.9433'	-40.7	4.2	-44.9	Hard refusal met. Parent material of dry blue/green clay in cutter head.
LRTC-DU1-05	37°55.1100'	-122°21.9218'	-41.5	3.3	-44.8	Hard refusal met. Parent material of dry blue/green clay in cutter head.

^AState Plane Coordinate System, California Zone 3, NAD 83